ScienceLogic

Datacenter Automation Utilities PowerPack

Datacenter Automation Utilities PowerPack version 200

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Chapter

Introduction to the Datacenter Automation Utilities PowerPack

Overview

The "Datacenter Automation Utilities" PowerPack includes run book automation and action policies that assist with general-purpose activities for other installed Automation PowerPacks. This PowerPack also provides various enrichment utilities that validate network connectivity from SL1 to a target device, and a run book action template that you can use to make network requests (GET/POST) from SL1.

You can use this PowerPack to provide enriched events for network connectivity issues for all devices by enabling the actions in this pack. Once enabled, all poller-related events will be enriched with the actions in this pack.

Version 200 of this PowerPack incorporates content from the following PowerPacks:

- Network Connectivity Automation PowerPack
- Network Connectivity User-Initiated Automation PowerPack
- HTTP Action Type PowerPack

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (三).
- To view a page containing all of the menu options, click the Advanced menu icon (•••).

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What is the Datacenter Automation Utilities PowerPack?

The "Datacenter Automation Utilities" PowerPack supplies SL1 policies that assist with managing other Automation PowerPacks installed on your SL1 system.

In addition to the content from previous releases of the "Datacenter Automation Utilities" PowerPack, this PowerPack includes event policies, device groups, run book actions, run book automation policies, and action types from the following PowerPacks:

- Network Connectivity Automation PowerPack. Enriches SL1 network connectivity events, such as availability and latency issues, by automatically running common network diagnostic commands and adding the output to the SL1 event log or an associated incident. This PowerPack includes custom run book action types for running ping, traceroute, nslookup, and nmap commands with parameters that you specify.
- Network Connectivity User-Initiated Automation PowerPack. Contains automation policies that you can use to run common network diagnostic commands from the SL1 Events page using Event Tools. In addition to using the standard content, you can customize the automation policies, or you can create your own automation policies using any available automation actions.
- HTTP Action Type PowerPack. Contains the "HTTP Action Template" run book action template that you can use to create custom automation actions that perform HTTP requests. The PowerPack also includes action types that are used by the run book action.

Upgrading from a Previous Version of the PowerPack

If you have a previous version of the "Datacenter Automation Utilities" PowerPack, you will need to execute the following SQL on your SL1 system to ensure a seamless transition to version 200. These queries ensure any applicable run book actions, automation policies, and other content on the SL1 system from the previous versions of the "Network Connectivity" and "HTTP Action Type" PowerPacks can receive updates from the upgrade to version 200 of this PowerPack.

To upgrade from a previous release:

- 1. In SL1, got to the Database Tool page (System > Tools > DB Tool).
- 2. Execute the following queries, one at a time:

```
UPDATE 'master'.'automation action types' SET 'ppguid' =
'B93FB6E9C2E5C7BC8C99A55E4DDD673F' WHERE 'ppquid' IN
('2BF43CA3E82A767F2B14756B64D6E2AE',
'1034B560B0D0DFDE390C248396F2A301');
UPDATE 'master'.'automation action types' SET 'ppguid' =
'B93FB6E9C2E5C7BC8C99A55E4DDD673F' WHERE 'quid' IN
('EFE2255897C1700DE6601F6CB7892C9D');
UPDATE 'master'.'policies actions' SET 'ppguid' =
'B93FB6E9C2E5C7BC8C99A55E4DDD673F' WHERE 'ppquid' IN
('2BF43CA3E82A767F2B14756B64D6E2AE',
'1034B560B0D0DFDE390C248396F2A301');
UPDATE 'master'.'policies automation' SET 'ppguid' =
'B93FB6E9C2E5C7BC8C99A55E4DDD673F' WHERE 'ppguid' IN
('2BF43CA3E82A767F2B14756B64D6E2AE',
'1034B560B0D0DFDE390C248396F2A301');
UPDATE 'master dev'.'device groups' SET 'ppguid' =
'B93FB6E9C2E5C7BC8C99A55E4DDD673F' WHERE 'ppquid' IN
('2BF43CA3E82A767F2B14756B64D6E2AE',
'1034B560B0D0DFDE390C248396F2A301');
```

Installing the Datacenter Automation Utilities PowerPack

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the *Enable Selective PowerPack Field Protection* setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. For more information, see the section on *Global Settings*.

To download and install the PowerPack:

- Search for and download the PowerPack from the PowerPacks page (Product Downloads > PowerPacks & SyncPacks) at the <u>ScienceLogic Support Site</u>.
- 2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
- 3. Click the [Actions] button and choose Import PowerPack. The Import PowerPack dialog box appears.
- 4. Click [Browse] and navigate to the PowerPack file from step 1.

- 5. Select the PowerPack file and click [Import]. The PowerPack Installer modal displays a list of the PowerPack contents.
- 6. Click [Install]. The PowerPack is added to the PowerPacks page.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPacks** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuring Network Connectivity Automations

Overview

This chapter describes how to configure and use the run book automation and run book action policies for network connectivity in the "Datacenter Automation Utilities" PowerPack.

You can use these policies to enrich SL1 network connectivity events, such as availability and latency issues, by automatically running common network diagnostic commands and adding the output to the SL1 event log or an associated incident. The available policies includes Network Connectivity user-initiated automation policies.

This PowerPack includes custom run book action types for running ping, traceroute, nslookup, and nmap commands with parameters that you specify. The PowerPack also includes two dynamic device groups for IPv4 devices and IPv6 devices.

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Network Connectivity Run Book Automation Policies

The Network Connectivity run book automation policies in this PowerPack run automatically in response to network availability events.

IMPORTANT: To use these run book automation policies, you will need to **enable each policy**, as the policies are disabled by default.

The "IPv4 Devices" and "IPv6 Devices" device groups in SL1 are aligned to all of the Network Connectivity automation policies. You will need to align your devices to those device groups for the policies to be run by default. For more information, see *Editing an Existing Device Group*.

The following table lists the Network Connectivity run book automation policies included in the "Datacenter Automation Utilities" PowerPack:

Automation Policy Name	Aligned Events	Run Book Action
Network Connectivity: Run IPv6 NMAP on Affected Port	 Poller: TCP/UDP port not responding 	 Run IPv6 NMAP: Single Port from Event
	 Poller: TCP/UDP port not responding (SMTP) 	 Datacenter Automation: Format Command Output as HTML
Network Connectivity: Run IPv6 NMAP on Common Ports	 Poller: Availability and Latency checks failed 	 Run IPv6 NMAP: Common Port List
	 Poller: Device not responding to ping (high frequency) 	 Datacenter Automation: Format Command Output as
	 Poller: Availability Check Failed 	HTML
	Poller: Availability Flapping	
	 Poller: TCP/UDP port not responding 	
	 Poller: TCP/UDP port not responding (SMTP) 	
	 Transactions: Round trip mail did not arrive within threshold 	
Network Connectivity: Run IPv6 NMAP on Monitored Ports	 Poller: Availability and Latency checks failed 	 Run IPv6 NMAP: Monitored Ports
	 Poller: Device not responding to ping (high frequency) 	 Datacenter Automation: Format Command Output as
	 Poller: Availability Check Failed 	HTML
	Poller: Availability Flapping	

Automation Policy Name	Aligned Events	Run Book Action
	 Poller: TCP/UDP port not responding Poller: TCP/UDP port not responding (SMTP) 	
Network Connectivity: Run NMAP on Affected Port	 Poller: TCP/UDP port not responding Poller: TCP/UDP port not responding (SMTP) 	 Run NMAP: Single Port from Event Datacenter Automation: Format Command Output as HTML
Network Connectivity: Run NMAP on Common Ports	 Poller: Availability and Latency checks failed Poller: Device not responding to ping (high frequency) Poller: Availability Check Failed Poller: Availability Flapping Poller: TCP/UDP port not responding Poller: TCP/UDP port not responding (SMTP) Transactions: Round trip mail did not arrive within threshold 	 Run NMAP: Common Port List Datacenter Automation: Format Command Output as HTML
Network Connectivity: Run NMAP on Monitored Ports	 Poller: Availability and Latency checks failed Poller: Device not responding to ping (high frequency) Poller: Availability Check Failed Poller: Availability Flapping Poller: TCP/UDP port not responding Poller: TCP/UDP port not responding (SMTP) 	 Run NMAP: Monitored Ports Datacenter Automation: Format Command Output as HTML
Network Connectivity: Run Nslookup (IPv4)	 Poller: Availability and Latency checks failed Poller: Availability Check Failed Poller: Availability Flapping Poller: Device not responding to ping (high frequency) 	 Run Nslookup: Default Options Datacenter Automation: Format Command Output as HTML

Automation Policy Name	Aligned Events	Run Book Action
	 Poller: DNS hostname resolution time above threshold 	
	 Poller: Failed to resolve hostname 	
	 Poller: TCP/UDP port not responding 	
	 Poller: TCP/UDP port not responding (SMTP) 	
	 Transactions: Round trip mail did not arrive within threshold 	
Network Connectivity: Run Ping (IPv4)	 Poller: Availability and Latency checks failed 	 Run Ping: Default Options Datacenter Automation:
	 Poller: Availability Check Failed 	Format Command Output as HTML
	 Poller: Availability Flapping 	
	 Poller: Device not responding to ping (high frequency) 	
	 Poller: Network Latency Exceeded Threshold 	
	 Poller: TCP connection time above threshold 	
	 Poller: TCP/UDP port not responding 	
	 Poller: TCP/UDP port not responding (SMTP) 	
	 Transactions: Round trip mail did not arrive within threshold 	
Network Connectivity: Run Ping (IPv6)	 Poller: Availability and Latency checks failed 	 Run Ping6: Default Options Datacenter Automation:
	 Poller: Availability Check Failed 	Format Command Output as HTML
	 Poller: Availability Flapping 	
	 Poller: Device not responding to ping (high frequency) 	
	 Poller: Network Latency Exceeded Threshold 	
	 Poller: TCP connection time above threshold 	

Automation Policy Name	Aligned Events	Run Book Action
	 Poller: TCP/UDP port not responding Poller: TCP/UDP port not responding (SMTP) 	
	 Transactions: Round trip mail did not arrive within threshold 	
Network Connectivity: Run Traceroute (IPv4)	 Poller: Availability and Latency checks failed 	Run Traceroute: Default Options
	 Poller: Availability Check Failed 	 Datacenter Automation: Format Command Output as
	Poller: Availability Flapping	HTML
	 Poller: Device not responding to ping (high frequency) 	
	 Poller: Network Latency Exceeded Threshold 	
	 Poller: TCP connection time above threshold 	
	 Poller: TCP/UDP port not responding 	
	 Poller: TCP/UDP port not responding (SMTP) 	
	 Transactions: Round trip mail did not arrive within threshold 	
Network Connectivity: Run Traceroute (IPv6)	 Poller: Availability and Latency checks failed 	 Run IPv6 Traceroute: Default Options
	 Poller: Availability Check Failed 	 Datacenter Automation: Format Command Output as
	Poller: Availability Flapping	HTML
	 Poller: Device not responding to ping (high frequency) 	
	 Poller: Network Latency Exceeded Threshold 	
	 Poller: TCP connection time above threshold 	
	 Poller: TCP/UDP port not responding 	
	 Poller: TCP/UDP port not responding (SMTP) 	
	• Transactions: Round trip mail did not arrive within threshold	

NOTE: If your SL1 system is on version 12.1.0 or earlier, the IPv6 Network Connectivity run book actions will not work, as IPv6 is not supported on those versions. SL1 must be at version 12.1.2 or later to use IPv6 and the IPv6 Network Connectivity actions.

Enabling Automation Policies

Before you can use the Network Connectivity run book automation policies, you will need to enable the policies. The automation policies are disabled by default. You do not have to do any additional configuration after enabling the policies.

To enable the automation policies:

- 1. In SL1, go to the **Automation** page (Registry > Run Book > Automation) and open the run book automation policy. The Automation Policy Editor page appears.
- 2. Set the Policy State to Enabled.
- 3. In the *Aligned Actions* field, select a run book action (if needed) in the *Available Actions* field and click the right arrow (>>). Add more actions as needed. To re-order the actions in the *Aligned Actions* field, select an action and use the up arrow or down arrow buttons to change that action's position in the sequence.
- 4. Click [Save].
- 5. For the run book action or actions you selected in step 3, go to the Actions page (Registry > Run Book > Actions), click the wrench icon (), and make sure the Action State for that action is set to Enabled. Repeat for all actions you selected in step 3.
- 6. Click **[Save]**. The automation policy is now enabled.

Configuring Network Connectivity Actions to Send Output to ServiceNow

To send output to ServiceNow for the Network Connectivity automation policies, you can add one of the following run book actions in the **Aligned Actions** field for the automation policy:

- Datacenter Automation: Format HTML Output for ServiceNow Scoped
- Datacenter Automation: Format Output for ServiceNow Non-Scoped
- Datacenter Automation: Format Output for ServiceNow Scoped

The ServiceNow action should be the second action in the **Aligned Actions** field, with the "Datacenter Automations: Update ServiceNow Incident" as the last action in the automation policy.

For example, if you want to send output to ServiceNow from the "Network Connectivity: Run IPv6 NMAP on Affected Port" automation policy, you would arrange the run book actions in the automation policy in this order:

- 1. Run IPv6 NMAP: Single Port from Event Actions Log
- 2. Datacenter Automation: Format Output for ServiceNow Non-Scoped (add this action after you remove the default "Datacenter Automation: Format Output as HMTL" action)
- 3. Datacenter Automations: Update ServiceNow Incident (for more information about configuring this run book action, see Configuring SL1 in the ServiceNow Incident SyncPack manual)

Policy Name	Policy Ty	pe		Policy State		Policy F	riority	Orga	nization
Network Connectivity: Run IPv6 NMAP on Affected Port	Active Events/User Initiat	ed]	~	[Enabled]	~) [D	efault]	~	[System]	
Criteria Logic	Match Logic				Ma	atch Synt	ax		
Severity >=]	 [Text search] 	~							
and no time has elapsed]		anaat	Time				Alim	a Mith	
since the first occurrence,]	Conly once 1	epear	Time	1] (×	Device Gr	rouns 1	Aligi	i vvitii	
[and event is NOT cleared]									
[and all times are valid]	Include events for entitient of the second secon	es oth	er than devices	(organizations, asset	is, etc.)				
	/								
Trigger on Child Rollup									
vailable Device Groups		_	Aligned Devi	ce Groups					
AWS EBS Volumes			IPv6 Device	5					
AWS EC2 Instances		>							
IPv4 Devices									
Microsoft Azure: Storage Disks		×							
Microsoft Azure: Virtual Machines									
vailable Events		_	Aligned Even	ts					
[20] Critical: Anomaly Score Critical			[1151] Maio	r: Poller: TCP/UDP n	ort not re	sponding	,		
[1768] Critical: Anomaly Score Critical - new vork		>	[1216] Maio	r: Poller: TCP/UDP po	ort not re	sponding	, z (SMTP)		
[351] Critical: AWS Network Failure							,,,		
[215] Critical: AWS: Direct Connect Connection Down State		*							
[230] Critical: AWS: Direct Connect Connection Is Down									
vailable Actions		ו	Aligned Actio	ns					
					44 D. C	le Deet 6	Et]
Sivivier Hap [1], SET Event Hap Spinnet [5]: Automation Utilities: Calculate Memory Size for Fi	ach Action		2. Foinpot [5	P [100]. KUN IPV6 NIV	otion: For	mot Out	on Event	riceblow blog. Sc	oned
Snipper [5]: Automation Otimites, Calculate Memory Size for E: Snippet [5]: AWS: Account Creation	acrimentari		2. Snippet [3	j. Datacenter Automa wr. Create Undata C	lear Incid	lent [100	Pution Sen	er Automations	Undate Son
Snippet [5]: AWS: Account Write Back			J. Serviceino	w. create, opuate, c	acar melo	ient [105	j. Datacent	er Automations.	opuate ser
Sninpet [5]: AWS: Disable Instance By Tag									
Shipper [5]. Avv5. Disable instance by Tag									

IMPORTANT: Be sure to select Enabled in the **Policy State** field for the automation policy before you click [Save] or [Save As].

Network Connectivity User-initiated Automation Policies

All of the Network Connectivity run book automation policies listed above have a **Policy Type** of *Active Events/User Initiated*. The automation policy enables all of the features of the "Active Events" and the "User Initiated" Policy Types. As a result, this automation policy can be triggered by active events that meet the criteria in the policy, or a user can manually trigger the automation.

You can run these automation policies as needed from the **Devices** page, the **Events** page, and the **Service Investigator** page. If there is an event policy specified in the automation policy, that event must be active for the policy to be run manually, and the policy can only be run on that event type. The same applies for the device groups list.

For these automation policies to be visible from the **Tools** panel in the **Device Summary** modal , the following three things must be true between the event and the automation policy configuration:

- **Organization**. The organization associated with the event must match the organization configured in the automation policy. Policies in the "System" organization match all organizations.
- *Aligned Devices*. The device for which the event is triggered must be configured as an Aligned Device in the automation policy.
- Aligned Event. The event must match one of the Aligned Events configured in the automation policy.

In most situations, you would run a user-initiated automation in response to an event that just occurred. If you have Automation PowerPacks installed on your SL1 system, the **Event Actions Log** window for that event might contain diagnostic information from other automations that have already run, including information that helps you determine which user-initiated automation you should run next to address the cause of the event.

To run a user-initiated automation policy, click the open icon (⁷) to open the **Device Summary** modal for the event and click in the **Tools** section. Any available user-initiated automation policy will be listed there, available to run on-demand.

To view the run book automation actions available for an event, click the **[Actions]** button (‡) for the event and select *View Automation Actions* to see the automation actions triggered by the events. The results for the event display in the **Event Actions Log**, include the automation policy that ran, along with the collected data. The following figure shows an example of this output:



Network Connectivity Run Book Action Policies

You can use the following run book action policies to perform specific actions as part of the *run book automations* in the "Datacenter Automation Utilities" PowerPack:

- Run IPv6 NMAP: Common Port List. Runs a standard NMAP command on ports 21, 22, 25, 53, 80, 443, 5985, and 5986 on the monitored IPv6 device.
- **Run IPv6 NMAP: Monitored Ports**. Runs a standard NMAP command on any ports that are currently monitored with a port monitoring policy on the triggering IPv6 device.

- **Run IPv6 NMAP: Single Port from Event**. Runs a standard NMAP command on the port provided in the event triggering the associated automation policy on the monitored IPv6 device.
- **Run IPv6 Traceroute: Default Options**. Runs a standard traceroute command on the triggering IPv6 device.
- Run NMAP: Common Port List. Runs a standard NMAP command on ports 21, 22, 25, 53, 80, 443, 5985, and 5986 on the monitored IPv4 device.
- **Run NMAP: Monitored Ports**. Runs a standard NMAP command on any ports that are currently monitored with a port monitoring policy on the triggering IPv4 device.
- **Run NMAP: Single Port from Event**. Runs a standard NMAP command on the port provided in the event triggering the associated automation policy on the monitored IPv4 device.
- Run Nslookup: Default Options. Runs a standard NSLOOKUP (IPv4) command on the triggering IPv4 device.
- Run Ping6: Default Options. Runs a standard ping command on the triggering IPv6 device.
- Run Ping: Default Options. Runs a standard ping command on the triggering IPv4 device.
- Run Traceroute: Default Options. Runs a standard traceroute command on the triggering IPv4 device.

NOTE: If your SL1 system is on version 12.1.0 or earlier, the IPv6 Network Connectivity run book actions will not work, as IPv6 is not supported on those versions. SL1 must be at version 12.1.2 or later to use IPv6 and the IPv6 Network Connectivity actions.

Using the Network Connectivity Automation Policies

For every device that has an IP address, SL1 monitors availability every five minutes. If you have enabled Critical Ping for a device and enabled the event "Poller: Device not responding to ping (high frequency)", you can monitor availability at a higher frequency than five minutes. The automation policies respond to events from Critical Ping as well.

To see the automation actions triggered by an event on the **Events** page, click the **[Actions]** button (*) and select *View Automation Actions*. The **Event Actions Log** page appears.

Notice the highlighted NMAP, Ping, and Nslookup information in the following image. The log indicates that the following actions ran successfully and indicates which SL1 appliance ran the action:

- "Run Nslookup (IPv4): Default Options" and "Datacenter Automation: Format Command Output as HTML"
- "Run NMAP on Common Ports" and "Datacenter Automation: Format Command Output as HTML"
- "Run Ping (IPv4): Default Options" and "Datacenter Automation: Format Command Output as HTML"

Event Actions Log For Event [177587]	Refresh	Guide
2020-05-04 13:45:28		<u>^</u>
Automation Policy Network Connectivity: Run NMAP on Monitored Ports action Datacenter Automation: Format Output as HTML ran Successfully Message:Snippet (365) executed without incident Result: (formatted_output': <u>"Enrichment Command Output</u>		
3		
2020-05-04 13:44:55		
Automation Policy Network Connectivity: Run Nslookupy (IPv4) action Datacenter Automation: Format Output as HTML ran Successfully Message:Sinpper (365) executed without incident Result: (formatted_output': <u>Enrichment Command Output</u>		
Command: nslookup 10.40.3.5 Appliance:osool26 5.3.40.10.in-addr.arpa name = t112r2-ex-01.mstl12r2.com. Authoritative answers can be found from:		
3		
2020-05-04 13:44:55		
Automation Policy Network Connectivity: Nun NMAP on Common Ports action Datacenter Automation: Format Output as HTML ran Successfully Message:Sinppet (365) executed without incident Result: (formated_output): <u>Enrichment Command Output</u>		
Command: mmap -Fn -p 21,22,25,53,80,443,5985,5986 10.40.3.5 Appliance:cscol26 Starting Nmap 6.40 (http://mms/crg) at 220-05-04 13:40 UTC Nmap scan report for til2r2-ex-01.mstll2r2.com (10.40.3.5) Host is up (0.0017 a latency). PORT STATE SERVICE 22/ccp closed ftp 22/ccp closed ssh 25/ccp closed domain 80/ccp filtered https 53%/ccp filtered https 5985/ccp filtered wamans 5986/ccp filtered wamans 5986/ccp filtered wamans NMap done: 1 IF address (1 host up) scanned in 2.76 seconds		
3		
2020-05-04 13:43:55 Automation Policy Network Connectivity: Run Ping (IPv4) action Datacenter Automation: Format Output as HTML ran Successfully		
Message:Snippet (365) executed without incident Result: (formatted_output': <u>Enrichment Command Output</u>		
Command: ping -c 5 10.40.3.5 Appliance:cscol26 PINS 10.40.3.5 (10.40.3.5) 56(84) bytes of data.		~
10.40.3.5 pipg statistics		

TIP: Although you can edit the run book actions described in this section, the best practice is to "Save As" to create a new, renamed run book action.

Prerequisites for Creating a Network Connectivity Automation Policy

Before you create a run book automation policy using the Network Connectivity run book automation and action policies in this PowerPack, you must determine the following:

- Which commands (Ping, Traceroute, NSLOOKUP, or NMAP) you want to run on a device when an event occurs. There are 11 run book actions in the PowerPack that run these commands with different options. You can also create your own run book actions using the custom action types supplied in the PowerPack.
- What event criteria you want to use to determine when the automation actions will trigger, or the set of rules that an event must match before the automation is executed. This can include matching only specific event policies, event severity, associated devices, and so on. For a description of all the options that are available in automation policies, see *Run Book Automation*.

For more information about creating an automation policy, see Creating and Customizing Run Book Automation Policies.

Chapter



Configuring Network Request Run Book Actions

Overview

This chapter describes how to customize the network request run book actions included in the "Datacenter Automation Utilities" PowerPack.

The PowerPack also includes action types that are used by the automation action.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (三).
- To view a page containing all of the menu options, click the Advanced menu icon (---).

This chapter covers the following topics:

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Network Request Run Book Actions

You can use the following run book action policies to perform specific actions as part of the run book automations in the "Datacenter Automation Utilities":

- HTTP Action Template. Use this template to create run book actions that use the "Make an HTTP Request" action type to make HTTP requests, such as a GET or a POST, to a third-party system.
- HTTP Adaptive Card Action. Use this template, which includes a pre-built Microsoft Teams Adaptive Card, with a Microsoft Teams webhook. The adaptive card will provide basic data about the device and event that triggered the automation policy including the event ID, device name, and event message.

Customizing the HTTP Action Type Template

You can use the "HTTP Action Template" run book action to create run book actions that make HTTP requests, such as a GET or a POST, to a third-party system.

The most common use cases for a new run book action created by this template is to send data to Microsoft Teams and Slack webhook endpoints. However, GET and POST requests can be made to any endpoint based on the configuration of the run book action. There are multiple configuration options that can change the behavior of this request action.

To edit the "HTTP Action Template" run book action template:

- 1. Go to the Action Policy Manager page (Registry > Run Book > Actions).
- 2. Locate the "HTTP Action Template" automation action, and then click its wrench icon (*P*). The **Editing Action** page appears.

Policy Editor Editing Action [55]		Reset
Action Name	Action State	
HTTP Action Template	[Disabled]	~]
Descr	iption	
A template that can be used to create automation action	s that make HTTP requests.	
Organization	Action Type	
[System] V	Make an HTTP Request (2.1)	
Execution Environment	Action Run Context	
[Datacenter Automation Utilities v2.0 (python3.6)] >	[Database]	~]
Input Pa	rameters	
"relative_url":"", "payload":"{\"text\":\"New Event %e on Devi "payload_type":"", "command_label":"" }	ce: %X. Message: %M\"}",	
Save	Save As	

- 3. In the Action Policy Editor page, supply a value in each field.
 - Action Name. Specify a new name for the action policy.
 - Action State. Select whether the policy can be executed by an automation policy (Enabled) or cannot be executed (Disabled).
 - **Description**. Type a detailed description of the action.
 - Organization. Select the organization to associate with the action policy.
 - Action Type. The action type is set to Make an HTTP Request .
 - **Execution Environment**. Select from the list of available Execution Environments. The default execution environment is System.
 - Action Run Context. Select Database or Collector as the context in which the action policy will run.
- 4. In the *Input Parameters* field, you can change the values of the following parameters:

 credential_id. The ID of a SOAP/XML credential from the ID column of the Credentials page (Manage > Credentials). The run book action policy will use this credential to make the HTTP request. If you want the credential to be determined by the dynapp_guidparameter below, or if you are using the url_override option, the value of this parameter should be "0". If you use the dynapp_guid field, the SOAP/XML credential aligned to that Dynamic Application on the same device will be used for the URL and HTTP method information.

To make a GET or POST request to an API, set the base URL in the SOAP/XML credential and use the *relative_url* field, below, to add the endpoint to which you are making the request. The HTTP method used (GET or POST) is based on the value set in the *Method* field of the SOAP/XML credential.

NOTE: You will need to specify the IP address in the SOAP credential. The use of **%D** as a variable is not supported.

- **dynapp_guid**. The Dynamic Application GUID with a credential the action policy should use to make the HTTP request. If you are using the "url_override option", do not add a value to this parameter.
- **url_override**. The URL of the webhook created from your third-party system, or an other URL to use to make the request. This is expected to be a full URL. If you use this field, you should not use the **relative_url** field. Any requests made using the **url_override** field are made with no authentication.
- relative_url. Typically, the string appended to the end of the URL in the associated credential before making the request. You can use this parameter if you do not need to use authentication or other options in a SOAP/XML credential. If you use this field, you should not use the url_override field.

NOTE: If you use the "relative_url" option and do not specify a payload, the action will perform a GET request. If you use this option and specify a payload, the action will perform a POST request.

• **payload**. This parameter is sent in the body of the request and appears in the user interface to which the HTTP request is sent.

NOTE: You can substitute this field with any Run Book Variables. For more information on Run Book Variables, see the "Run Book Variables" chapter in the *Run Book Automation* manual.

• **payload_type**. The data type to send the payload as in the request. Use the value "json" if you are using the "HTTP Adaptive Card Action" action policy, or if you are sending payloads to webhooks directly through this action using the **payload** field. Otherwise, leave this field blank.

- **command_label**. This optional parameter is used to label the response to the HTTP request in the Event Actions Log. If you leave this parameter empty, the response to a request will be labeled with the URL that was used to make the request.
- 5. Click [Save As].
 - **TIP**: When you use this run book action in a run book automation policy, add the "Datacenter Automation: Format JSON as simple HTML" run book after this new run book action to present the JSON response from the HTTP request in a human-readable HTML-based format.

Example: Using the HTTP Action Template to Send an HTTP Request

To send an HTTP request from SL1 to Microsoft Teams, you must create a new run book action using the "HTTP Action Template" action and align an automation policy. After you have completed the steps below, your Microsoft Teams channel should populate with SL1 event messages based on the configured criteria. You can also send authentication for the request through the URL instead of using an SL1 credential.

To send an HTTP request to Microsoft Teams using the "HTTP Action Template" action:

- 1. Create an incoming webhook in Microsoft Teamsusing the instructions here: <u>https://docs.microsoft.com/en-us/microsoftteams/platform/webhooks-and-connectors/how-to/add-incoming-webhook.</u>
- 2. Go to the **Action Policy Manager** page (Registry > Run Book > Actions), locate the "HTTP Action Template" action, and then click its wrench icon (*P*).
- 3. Enter values in the following fields:
 - Action Name. Type a new name for your automation action.
 - Action State. Select Enabled.
 - **Description**. Type a description for your automation action.
- 4. In the *Input Parameters* field, change the values of the following parameters:
 - credential_id.Set to 0: "credential id":0,
 - *url_override*. Specify the URL of the webhook you created in step 1 for Microsoft Teams. When using the this parameter, the HTTP method used for the request is based on the presence of a value in the payload field:
 - ° If the field is empty, a GET request is made.
 - If there is a value in the field, a POST request is made, with the value sent as the request's payload body. In this situation, the HTTP request will be made unauthenticated.

- relative_url. Set to the default: "relative url":"",
- **payload**. As needed, change the value in this parameter to customize the message that appears in Microsoft Teams. You can substitute this field with any run book variables. For more information on run book variables, see *Run Book Variables*.
- command_label. Type a label for your run book action that appears in the Event Actions Log.
- 5. Click [Save As].
- 6. To create an automation policy for your newly created run book action, see Creating and Customizing *Run Book Automation Policies*. Be sure to add the new run book action to the *Aligned Actions* field.

Chapter

4

Configuring Automation Utilities and Datacenter Automations

Overview

This chapter describes how to configure and use the "Automation Utilities" and the "Datacenter Automation" policies in the "Datacenter Automation Utilities" PowerPack.

These general-purpose run book actions and run book automation policies let you modify the output formatting of an enrichment action, send enrichment data to ServiceNow integrations, and supplement the execution of enrichment actions.

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon (三).
- To view a page containing all of the menu options, click the Advanced menu icon (•••).

This chapter covers the following topics:

Automation Utilities and Datacenter Automation Run Book Automation Policies	24
Automation Utilities and Datacenter Automation Run Book Actions	24
Sending Enrichment Output to a ServiceNow Integration	
Removing Automation Policies from a PowerPack	27
Creating and Customizing Run Book Automation Policies	32

Automation Utilities and Datacenter Automation Run Book Automation Policies

The following table lists the "Automation Utilities" run book automation policies included in the "Datacenter Automation Utilities" PowerPack:

Automation Policy Name	Aligned Events	Run Book Action
Automation Utilities: Integrate Automations with SNOW Scoped For more information, see Sending Enrichment Output to a	 Automation Utilities: Request to Migrate Datacenter Advanced Enrichment Policies to ServiceNow 	 Automation Utilities: Change Enrichment Formatting to SN Scoped
ServiceNow Integration.		 Automation Utilities: Connect Enrichment Automations to SN
Automation Utilities: Remove Automation Policies from PowerPack For more information, see <i>Removing Automation Policies</i> <i>from a PowerPack</i> .	 Automation Utilities: Request to Remove Datacenter Advanced Enrichment Policies from PowerPack 	 Automation Utilities: Remove Automation Policies from PowerPack

IMPORTANT: To use these run book automation policies, you will need to **enable each policy**, as the policies are disabled by default.

Automation Utilities and Datacenter Automation Run Book Actions

The general-purpose run book actions and run book automation policies in the "Datacenter Automation Utilities" PowerPack help with modifying the output formatting of an enrichment action, sending enrichment data to ServiceNow integrations, or otherwise supplementing the execution of enrichment actions.

You can use the following run book action policies to perform specific actions as part of the run book automations in the "Datacenter Automation Utilities" PowerPack.

• Automation Utilities: Calculate Memory Size for Each Action. Manages memory allocation for other run book actions that are included in the automation policy aligned with this action. This action should be at the start of a run book automation policy that includes multiple run book actions that collect data.

This run book action manages memory allocation for the following actions and PowerPacks:

- "Network Connectivity" run book actions from this PowerPack; for more information, see Configuring Network Connectivity Automations
- "Linux SSH Automations" PowerPack
- "VMware Automation" PowerPack
- "Windows PowerShell Automations" PowerPack
- Automation Utilities: Change Enrichment Formatting to SN Scoped. Where applicable, changes all of the run book automation policies in the specified Automation PowerPack to use the "Datacenter Automation: Format Output for ServiceNow Scoped" run book action instead of the "Datacenter Automation: Format Output as HTML" action. You can specify the target PowerPack with the *powerpack_guid* field. For more information, see *Sending Enrichment Output to a ServiceNow Integration*.
- Automation Utilities: Connect Enrichment Automations to SN. Where applicable, changes all the run book automation policies in the specified Automation PowerPack to use the "Datacenter Automations: Update ServiceNow Incident" run book action in place of the "Enrichment: Util: Load HTML Work Instructions" action. You can specify the target PowerPack with the **powerpack_guid** field. For more information, see Sending Enrichment Output to a ServiceNow Integration.
- Automation Utilities: Remove Automation Policies from PowerPack. Unaligns all of the automation policies from the specified Automation PowerPack to prevent any changes made to the automation policy from being overwritten when the PowerPack is updated on that SL1 system. You can specify the target PowerPack with the powerpack_guid field. For more information, see Removing Automation Policies from a PowerPack.
- Datacenter Automation: Add Commands to Device Log. Adds a device log entry that includes a list of commands for any run book action that executed a command on a device. This run book action must come after the command execution action in the associated run book automation policy.

For example, you should add this run book action after the "Linux CPU Diagnostic Commands" run book action in **Aligned Actions** field of the automation policy.

• Datacenter Automation: Format HTML Output for ServiceNow Scoped. Formats the command-list execution output into a human-readable format, and then formats the output into a dictionary for ServiceNow to accept for a scoped integration. You should add this run book action after the command execution action in the associated run book automation policy.

This action is intended to be used with the "Datacenter Automations: Update ServiceNow Incident" run book action.

• Datacenter Automation: Format JSON as simple HTML. Formats the HTTP JSON response from the previous run book action into a human-readable HTML-based format and presents the output in the standard SL1 run book automation output. You should add this action after an HTTP request run book action in the associated automation policy. For more information, see Configuring Network Request Run Book Actions.

- Datacenter Automation: Format Output as HTML. Formats the command-list execution output into a human-readable HTML-based format and presents the output in the standard SL1 run book automation output. You should add this action *after* the command execution action in the associated automation policy.
- Datacenter: Automation Format Output for ServiceNow Non-Scoped. Formats the command-list execution output into a dictionary for ServiceNow to accept for a non-scoped integration. You should add this action after the command execution action in the associated automation policy.

This action is intended to be used with the "Datacenter Automations: Update ServiceNow Incident" run book action.

• Datacenter Automation: Format Output for ServiceNow Scoped. Formats the command-list execution output into a dictionary for ServiceNow to accept for a scoped integration. This action should come after the command execution action in the associated automation policy.

This action is intended to be used with the "Datacenter Automations: Update ServiceNow Incident" run book action.

• **Datacenter Automations: Update ServiceNow Incident**. Updates a ServiceNow incident with enrichment data collected by an enrichment automation action.

Sending Enrichment Output to a ServiceNow Integration

The "Automation Utilities: Integrate Automations with SNOW Scoped" run book automation policy updates the run book actions for a specified PowerPack so that PowerPack sends enrichment output to a ServiceNow integration.

This release includes the following event policy and run book action policies to support this automation policy:

- "Automation Utilities: Request to Migrate Datacenter Advanced Enrichment Policies to ServiceNow" event policy
- "Automation Utilities: Change Enrichment Formatting to SN Scoped" run book action policy
- "Automation Utilities: Connect Enrichment Automations to SN" run book action policy

This automation policy modifies the policies in the target Automation PowerPack in the following ways:

- In all run book automation policies in the target PowerPack, this policy uses "Automation Utilities: Change Enrichment Formatting to SN Scoped" run book action to replace all instances of the "Datacenter Automation: Format Output as HTML" run book action with the "Datacenter Automation: Format Output for ServiceNow Scoped" run book action. This run book action prepares the output to be used in the enrichment of a ServiceNow incident.
- 2. In all automation policies in the target PowerPack, the "Automation Utilities: Connect Enrichment Automations to SN" run book action replaces instances of the "Enrichment: Util: Load HTML Work Instructions" run book action with the "Datacenter Automations: Update ServiceNow Incident" run book action.
- 3. For both run book actions, you will need to add the PowerPack ID to the run book action.

NOTE: Not all Automation PowerPacks have the "Enrichment: Util: Load HTML Work Instructions" action aligned to their automation policies by default. If you would like to send the enrichment information from the target PowerPack to a ServiceNow incident, you can manually align the "Datacenter Automations: Update ServiceNow Incident" run book action to the automation policies in the target PowerPack after running the "Automation Utilities: Integrate Automations with SNOW Scoped" automation policy.

Removing Automation Policies from a PowerPack

The "Automation Utilities: Remove Automation Policies from PowerPack" automation action removes all automation policies from a specific Automation PowerPack. After you have customized an automation policy from an Automation PowerPack, you might want to remove that policy from that PowerPack to prevent your changes from being overwritten if you update the PowerPack later on that SL1 system.

This release includes the following event policy and run book action policy to support this automation policy:

- "Automation Utilities: Request to Remove Datacenter Advanced Enrichment Policies from PowerPack" event policy
- "Automation Utilities: Remove Automation Policies from PowerPack" run book action policy

The following topics cover how to configure these automation policies.

Adding the PowerPack Global ID ("guid") to the Run Book Action

To use these automation policies, you will need to locate the global ID ("guid") of the Automation PowerPack you want to update. You then add the "guid" to the run book actions used by the automation policies so that SL1 knows which PowerPack to update.

These instructions are for both of the following run book automation policies:

- Automation Utilities: Integrate Automations with SNOW Scoped
- Automation Utilities: Remove Automation Policies from PowerPack

To locate and add the PowerPack ID to the run book actions:

- 1. In SL1, go to the **API Browser** page (System > Tools > API Browser).
- 2. Update the **URI** field so it displays **/api/powerpack**, and then press **Enter**. A list of the installed PowerPacks appears.

3. Search for the PowerPack you want to update and click the **"URI"** value for that PowerPack. The detail page for that PowerPack appears:



- 4. Copy the value that displays in the **"guid"** row.
- 5. Go to the **Actions** page (Registry > Run Book > Actions) and open the corresponding run book action or actions for that automation policy. The **Action Editor** modal appears:

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6. Paste the "guid" value from step 4 into the "powerpack_guid": "%Y", parameter in the Input Parameters section, replacing the %Y with the "guid" value.

```
For example: "powerpack_guid": "246E715AA03BFAE7C52D1230F3A1CB99",
```

IMPORTANT: Other than modifying the target PowerPack "guid", you should not customize the run book actions in the "Datacenter Automation Utilities" PowerPack.

7. Click **[Save]** and continue with the next procedure to test the automation policy.

Triggering the Automation Policy

If you want to test the configuration of an automation policy, you can use the SL1 **API Browser** page to create a test API event based on that automation policy. You will need the device ID (DID) for one of your existing devices to use as the target device for the automation policy. The device ID displays in the **ID** column on the **Devices** page.

To trigger an automation policy:

1. In SL1, go to the **Automation** page (Registry > Run Book > Automation) and open the run book automation policy that you want to run. The Automation Policy Editor page appears:

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- 2. In the **Aligned Events** section, make a note of the aligned event. In this example, the aligned event is "Automation Utilities: Request to Remove Datacenter Advanced Enrichment Policies from PowerPack".
- 3. Go to the **Event Policies** page (Events > Event Policies) and open the event policy from step 2.

4. On the **[Match Logic]** tab, copy the value from the **Match String** field:



 Next, you will POST an alert with the event's Match String to kick off the automation. Go to the API Browser page (System > Tools > API Browser) and update the URI field so it displays /api/alert. 6. Scroll down to the Actions section on the right and click [POST]. A Data modal appears.



7. Paste the Match String from step 4 into the "message" parameter.

For example: "message": "Request to Remove Datacenter Advanced Enrichment Policies from PowerPack",

8. Type /api/device/<target_device_id> in the "aligned_resource" field, where <target_device_id> is the device ID for the target device. The device ID displays in the **ID** column on the **Devices** page.

For example: "aligned resource": "/api/device/1"

- 9. Click **[POST]** to kick off the automation.
- 10. You can view the event generated by the automation on the **Events** page (Δ) or the **Classic Events** page (Events > Classic Events).

11. If a wrench icon (*1) appears in the **Automated Actions** column on the **Events** page, you can click the Actions button (±) and select *View Automation Actions* to see more information about the automation that just ran. The **Event Actions Log** modal appears for that event:

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O Automation Policies from the PowerPack have been updated.	
Summary of Changes:	
Changed matching severity to: Changed event state to: Replaced action with Added the allowing actions:	
powerpack_guid: not found	
024-08-13 14:29:11	
	Successfully
Automation Policy Automation Utilities: Integrate Automations with SNOW Scoped action Automation Utilities: Connect Enrichment Automations to SN ran Wessage:CustomActionType (394) executed without incident Yesult:	
Automation Policy Automation Utilities: Integrate Automations with SNOW Scoped action Automation Utilities: Connect Enrichment Automations to SN ran Vessage:CustomActionType (394) executed without incident Result: 11 Automation Policies from the ServiceNow Base Pack PowerPack have been updated.	
Automation Policy Automation Utilities: Integrate Automations with SNOW Scoped action Automation Utilities: Connect Enrichment Automations to SN ran Vessage:CustomActionType (394) executed without incident Result: 11 Automation Policies from the ServiceNow Base Pack PowerPack have been updated. Summary of Changes:	
Automation Policy Automation Utilities: Integrate Automations with SNOW Scoped action Automation Utilities: Connect Enrichment Automations to SN ran Resage:CustomActionType (394) executed without incident Result: 11 Automation Policies from the ServiceNow Base Pack PowerPack have been updated. Summary of Changes: • Changed matching severity to:	

Creating and Customizing Run Book Automation Policies

You can use the default run book automation policies in this PowerPack, or you can create and customize the policies as needed.

TIP: You might need to configure the run book action policy before you can add it to the run book automation policy. For more information, see Action Policies.

To create or customize a run book automation policy:

- 1. Go to the Automation Policy Manager page (Registry > Run Book > Automation).
- 2. Click the **[Create]** button to create an automation policy, or search for an existing automation policy that you want to edit and click the wrench icon (*P*) for that policy . The **Automation Policy Editor** page appears.

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C 🔒 https://10.128.88.92/em7/index.em7?exec=registry_policies_automation_editor&policy_id=31 😭 🗦				
Automation Policy Editor Editing Automation Policy [31]	Reset			
Policy Name Policy Type Automation Utilities: Integrate Automations with SNOW Scc [Active Events] Criteria Logic Match Logic	Policy State Policy Priority Organization v [Enabled] v [Default] v [System] v Match Syntax			
[Seventy >=] \[Healthy.] \[Itextsearch] Rep [and no time has elapsed] \[Itextsearch] Rep [since the first occurrence.] \[Itextsearch] \[Itextsearch] [and vent is NOT cleared] \[Itextsearch] \[Itextsearch] [and all times are valid] \[Itextsearch] \[Itextsearch]	eat Time Align With eat Time V [[Devices] v s other than devices (organizations, assets, etc.)			
Trigger on Child Rollup Available Devices	Aligned Devices			
Sample AVVS: Service: test ScienceLogic, Inc.: EM7 Data Collector: mrktng-dc1 ScienceLogic, Inc.: EM7 Data Collector: mrktng-dc2 Svdrem	(All devices)			
Available Events	Aligned Events			
[20] Critical: Anomaly Score Critical [1768] Critical: Anomaly Score Critical - new york [351] Critical: ANO: Network Failure [215] Critical: ANO: Elvert Connect Connection Down State [202] Critical: ANO: Elvert Connect Connection Downs	[1776] Healthy: Automation Utilities: Request to Migrate Datacenter Advanced Enrichmen c			
Available Actions	Aligned Actions			
SNMP Trap [1]: SL1 Event Trap Snippet [5]: Automation Utilities: Calculate Memory Size for Each Action Snippet [5]: AWS: Account Creation Snippet [5]: AWS: Account Write Back Snippet [5]: AWS: Disable Instance By Tag	1. Update PowerPack Automation Policies [102]: Automation Utilities: Change Enrich 2. Update PowerPack Automation Policies [102]: Automation Utilities: Connect Enrich			
Save	Save As			

- 3. Complete the following fields as needed:
 - Policy Name. Type a new name for the automation policy to avoid overwriting the default policy.
 - **Policy Type**. Select whether the automation policy will match events that are active, match when events are cleared, or run on a scheduled basis. Typically, you would select *Active Events* in this field.
 - **Policy State**. Specifies whether the policy will be evaluated against the events in the system. If you want this policy to begin matching events immediately, select *Enabled*.
 - **Policy Priority**. Specifies whether the policy is high-priority or default priority. These options determine how the policy is queued.
 - **Organization**. Select the organization that will use this policy. You must use System for the organization for all policies in this PowerPack. The automation policy will execute for all devices regardless of their specific organization.
 - Aligned Actions. For a new automation policy, you will need to configure the Aligned Actions field to include one or more run book actions. To add an action to the Aligned Actions field, select the action in the Available Actions field and click the right arrow (>>). To re-order the actions in the Aligned Actions field, select an action and use the up arrow or down arrow buttons to change that action's position in the sequence.
- 4. If you need to align the automation policy with a device group, select *Device Groups* from the **Align With** drop-down menu, and select the device group from the **Available Device Groups** field.
- 5. As needed, supply values in the other fields to refine when the automation will trigger.

6. Click **[Save]** for a new policy, or click **[Save As]** if you are customizing an existing policy. If you modify one of the included automation policies and save it with the original name, any customizations you made to that policy will be overwritten when you upgrade the PowerPack.

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